AMENDMENTS TO THE CLAIMS

Please cancel claims 40-44, 55-57, 59-62, and 76-81 without prejudice or disclaimer, add new claims 82-84 as follows:

- 1-37. (Cancelled.)
- 38. (Currently Amended) A method for producing carbon nanowalls, <u>said method</u> comprising:

creating a plasma atmosphere in a plasma-generating area which is at least one region of a reaction chamber by plasmatizing a source material comprising carbon, hydrogen, and fluorine as essential components;

introducing <u>hydrogen</u> radicals generated by decomposing a radical source <u>comprising</u> <u>hydrogen</u> in a radical-generating area, which is disposed in the reaction chamber and is located outside the plasma-generating area, into the plasma atmosphere, the radicals being generated by <u>applying microwaves</u>, <u>Ultra High Frequency (UHF) waves</u>, <u>Very High Frequency (VHF) waves</u>, or <u>Radio Frequency (RF) waves</u> to the radical source; and

growing carbon nanowalls on a base material disposed in the reaction chamber,

wherein an amount of the radicals in the at least one region is measured, and

wherein at least one of a feed rate of the source material and a feed rate of the radicals is

controlled on a basis of the amount of the radicals.

- 39. (Previously Presented) The method according to claim 38, wherein the radicals are introduced in a direction perpendicular to a surface of the base material.
- 40-44. (Cancelled.)
- 45. (Previously Presented) The method according to claim 38, wherein at least one of a feed rate of the source material, a plasmatization degree of the source material, and a feed rate of the radicals is controlled based on a concentration of carbon radicals, hydrogen radicals, or fluorine radicals in the reaction chamber.

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46-53. (Cancelled.)

54. (Previously Presented) The method according to claim 38, wherein the base material has no metal catalyst disposed thereon.

55-57. (Cancelled.)

58. (Currently Amended) The method according to claim [[55]] 38, wherein the source material comprises CHF₃.

59-62. (Cancelled.)

- 63. (Previously Presented) The method according to claim 38, wherein the carbon nanowalls are oriented by tilting a line normal to the base material with respect to a direction of an electric field.
- 64. (Previously Presented) The method according to claim 38, further comprising:

 pretreating the base material by applying the radicals to the base material without plasmatizing the source material before the growing of the carbon nanowalls.

65-74. (Cancelled.)

75. (Currently Amended) A method for producing carbon nanowalls, <u>said method</u> comprising:

creating a plasma atmosphere in at least one region of a reaction chamber by plasmatizing a source material which comprises at least one compound selected from the group consisting of CH₄, CF₄, and CHF₃;

introducing <u>hydrogen</u> radicals generated outside the plasma atmosphere into the plasma atmosphere; and

growing carbon nanowalls on a base material disposed in the reaction chamber.

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76-81. (Cancelled.)

- 82. (New) The method according to claim 38, wherein the hydrogen radicals are generated in an upper area of the reaction chamber.
- 83. (New) The method according to claim 75, wherein hydrogen radicals are generated in an upper area of the reaction chamber.
- 84. (New) The method according to claim 75, wherein the hydrogen radicals are generated in an area other than a source gas plasmatizing area.